INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP03/10226

	SSIFICATION OF SUBJECT MATTER C1 F01B31/26, F01B23/10, F0	1B3/02, H02K5/20	
	101-01,10, 101520,10, 10	100,02, 110210,20	
According	; to International Patent Classification (IPC) or to both	national classification and IPC	
	DS SEARCHED		
Minimum	documentation searched (classification system follow	ed by classification symbols)	
l	.Cl' F25B, F01B, F01C, F01D,	F01K, F02B, F02C, F02G	, но2к
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Document	ation searched other than minimum documentation to		
Koka	suyo Shinan Koho 1922-1996 ai Jitsuyo Shinan Koho 1971-2003		
Electronic	data base consulted during the international search (n	_	
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C. DOCU	JMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where	appropriate, of the relevant passages	Relevant to claim No.
A	JP 01-168518 A (Nippondenso	••••	1-5
	04 July, 1989 (04.07.89), Fig. 10		
	(Family: none)		
A	US 4881372 A (Aisin Seiki K	abushiki Kaisha),	1-5
·	21 November, 1989 (21.11.89) Fig. 7	•	
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A	US 5467613 A (Carrier Corp.) .	1-5
	21 November, 1995 (21.11.95) Fig. 4	,	
	& CA 2144492 A & BI	R 9501437. A	
	& JP 08-042930 A & CI & EP 676600 A	N 1117573 A	
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× Furthe	er documents are listed in the continuation of Box C.	Constant Conflict	
	categories of cited documents:	See patent family annex.	
"A" document defining the general state of the art which is not considered to be of particular relevance		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive	
"E" earlier document but published on or after the international filing date			
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other "Y"		step when the document is taken alo document of particular relevance; the	one I
Special i 'O" docume	reason (as specified) nt referring to an oral disclosure, use, exhibition or other	considered to involve an inventive s combined with one or more other su	tep when the document is
means 'P" docume	nt published prior to the international filing date but later priority date claimed	"&" combination being obvious to a pers document member of the same pater	on skilled in the art
Date of the ac	ctual completion of the international search	Date of mailing of the international sea	arch report
1 / DE	ecember, 2003 (17.12.03)	13 January, 2004 ((13.01.04)
Name and ma	ailing address of the ISA/	Authorized officer	
Japanese Patent Office			
Facsimile No.		Telephone No.	ļ

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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 60-134835 Y2 (Eagle Kogyo Co., Ltd.), 07 September, 1985 (07.09.85), Fig. 1 (Family: none)	1-5
A	JP 56-165701 A (Hitachi, Ltd.), 19 December, 1981 (19.12.81), Figs. 1, 6 (Family: none)	1-5
A	JP 61-152953 A (Matsushita Electric Industrial Co., Ltd.), 11 July, 1986 (11.07.86), Full text; Figs. 1, 2 (Family: none)	1-5
A	JP 7-231611 A (Toyota Motor Corp.), 29 August, 1995 (29.08.95), Full text; Figs. 1 to 4 (Family: none)	1-5
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